PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond collection of information unless it displays a valid OMB control number. Application Number 10/714,088 TRANSMITTAL Filing Date November 14, 2003 **FORM** First Named Inventor Sreenivasan et al. Art Unit be used for all correspondence after initial filing) Unassigned Examiner Name Unassigned Attorney Docket Number P69/MII-29-11-03 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer Extension of Time Request Identify below): Form 1449 - IDS Request for Refund **Express Abandonment Request** Fifty-one (51) References Return Receipt Postcard to Kenneth Brooks CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Law Office of Kenneth C. Brooks Individual name Signature Date CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Alexis Sheffield Date teb. 5 Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

plicant: McMackin et al. PATENT APPLICATION

Serial No.: 10/714,088 Group Art Unit: Unassigned

Filing Date: November 14, 2003 Examiner: Unassigned

For: DISPENSE GEOMETRY TO ACHIEVE HIGH SPEED FILLING AND

THROUGHPUT.

### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Alexandria, VA 22313-1450

### Sir:

The following information is submitted in compliance with Applicants' duty of disclosure under 37 C.F.R. § 1.56. Form PTO-1449 and a copy of each reference recited below accompanies this document. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

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- Nguyen, A. Q. "Asymmetric Fluid-Structure Dynamics in Nanoscale Imprint Lithography," University of Texas at Austin, August 2001.

CERTIFICATE OF MAILING

Respectfully Submitted,
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in a package addressed to: MAIL STOP PATENT APPLICATION, Commissioner for

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Kenneth C. Brooks Reg. No. 38,393

P.O. Box 81536
Austin, Texas 78708-1536
Telephone: 512-527-0104
Facsimile: 512-527-0107
patentsrus@earthlink.net

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McMackin et al.			
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Attorney Docket Number P69/MII-29-11-03			

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Examiner nitials*	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
	A1	4,267,212		Sakawaki	05-12-1981	
	A2	4,451,507		Beltz et al.	05-29-1984	
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	A8	5,747,102		Smith et al.	05-05-1998	
	A9	5,772,905		Chou	06-30-1998	
	A10	5,776,748		Singhvi et al.	07-07-1998	·
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	A12	5,912,049		Shirley	06-15-1999	
	A13	6,074,827		Nelson et al.	06-13-2000	·
	A14	6,180,239		Whitesides et al.	01-30-2001	
	A15	6,334,960		Willson et al.	01-01-2002	
	A16	6,355,198	<u> </u>	Kim et al.	03-12-2002	
	A17	6,361,831		Sato et al.	03-26-2002	
	A18	6,518,168		Clem et al.	02-11-2003	
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Complete if Known			
Application Number 10/714,088			
Filing Date 11/14/2003			
First Named Inventor McMackin et al.			
Group Art Unit Unassigned			
Examiner Name Unassigned			
Attorney Docket Number	P69/MII-29-11-03		

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Office <sup>3</sup>	Foreign Patent Docume Number <sup>4</sup>	ent Kind Code <sup>5</sup> ( <i>if known</i> )	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	A19	JP	1-196749		Matsumoto et al.	08-08-1989		T
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<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>Seè attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Sheet 3 of 5

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Application Number 10/714,088			
Filing Date	11/14/2003		
First Named Inventor	McMackin et al.		
Group Art Unit	Unassigned		
Examiner Name	Unassigned		
Attorney Docket Number P69/MII-29-11-03			

OTHER PRIC	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>		
	A21	Gokan et al., "Dry Etch Resistance of Organic Materials," J. Electrochem. Soc. 130:1, 143-146 (Jan. 1983)			
-	A22	LIN, "Multi-Layer Resist Systems", Introduction of Microlithography," American Chemical Society, 1983, pp. 287-350, IBM T.J. Watson Research Center, Yorktown Heights, New York 10598.			
	A23	KRUG et al., "Fine Patterning of Thin Sol-Gel Films," Journal of Non-Crystalline Solids, 1992, pp. 447-450, vol. 147 & 148.			
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	A25	Krauss et al., "Fabrication of Nanodevices Using Sub-25nm Imprint Lithography," Appl. Phys. Lett 67(21), 3114-3116, 1995			
	A26	CHOU et al., "Imprint of Sub-25 nm Vias and Trenches in Polymers," Applied Physics Letters, November 20, 1995, pp. 3114-3116, vol. 67(21).			
	A27	CHOU et al., "Imprint Lithography with 25-Nanometer Resolution," Science, Apr. 5, 1996, pp. 85-87, vol. 272.			
	A28	HAISMA et al., "Mold-Assisted Nanolithography: A Process for Reliable Pattern Replication," Journal of Vacuum Science and Technology, Nov/Dec 1996, pp. 4124-4128, vol. B 14(6).			
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<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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Application Number	10/714,088			
Filing Date	11/14/2003			
First Named Inventor	McMackin et al.			
Group Art Unit	Unassigned			
Examiner Name	Unassigned			
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OTHER PRI	OR ART - I	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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Complete if Known Substitute for form 1449B/PTO **Application Number** 10/714,088 INFORMATION DISCLOSURE 11/14/2003 Filing Date ATEMENT BY APPLICANT **First Named Inventor** McMackin et al. Group Art Unit Unassigned (use as many sheets as necessary) **Examiner Name** Unassigned 5 of Attorney Docket Number P69/MII-29-11-03

OTHER PRI	OR ART -	NON PATENT LITERATURE DOCUMENTS	
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